OPEN-FILE RFPORT 79-1417 UNITED STATES COALMONT QUADRANGLE DEPARTMENT OF THE INTERIOR COLORADO-JACKSON CO. GEOLOGICAL SURVEY 7.5 MINUTE SERIES (TOPOGRAPHIC) PLATE 7 OF 9 106°22'30" 27'30" (DELANEY BUTTE) F 81 W R 80 W **EXPLANATION** 31 33 33 34 NON-FEDERAL COAL LAND-Land for which the Federal Government does not own the coal rights. \_\_\_\_CL\_C0105299 FEDERAL COAL LEASE BOUNDARY -Lease number within boundary. 6 ISOPACH-Showing thickness of coal, in feet. Arrow points toward area where coal bed is 5 feet or more thick. TRACE OF COAL BED OUTCROP-Showing symbol of name of coal bed. Arrow points toward coal-bearing area. Dashed where inferred by present authors. 11 12 FAULT - Dashed where approximately located: bar and ball on downthrown side where direction of movement is known. 0 POINT OF MEASUREMENT-Point from which boundary lines for measured, indicated, and inferred coal resources were drawn. STRIPPING-LIMIT LINE-Boundary for surface min-13 16 ing (in this quadrangle, the 200-foot-overburden 17 isopach). Arrow points toward the area suitable for surface mining where the recovery factor is 85 percent, and away from the area suitable for subsurface mining (down dip to the 3,000-foot-RB R(50%) overburden isopach) where the recovery factor 5.1 0.8 is 50 percent. 5.2 0.9 0.7 0.6 2.3 0.6 (Measured) 0.0 0.0 7.9 2.0 (Indicated) RB R(85%) (Inferred) 0.9 0.8 0.1 0.0 IDENTIFIED COAL RESOURCES-Showing totals 24 for Reserve Base (RB) and Reserves (R), in millions RB R(50%) 0.7 of short tons, for each section or part of section of 0.6 2.9 0.9 non-leased Federal coal land, both within and be-0.0 0.0 15.6 **3**.6 RB R(50%) yond the stripping-limit line. Reserve (R) tonnage RB R(85%) RB R(50%) 3.8 0.9 is calculated by multiplying the Reserve Base (RB) 2.7 2.3 2.4 0.4 tonnage by the appropriate recovery factor. Dash 0.2 0.0 1.1 1.0 0.4 0.1 indicates no resource in that category. Underground Reserves have been calculated for only that part of the Reserve Base that is suitable for underground mining, and do not include Reserves for areas where RB R(50%) RB R(50% the dip of the coal bed exceeds 15°. Also, Reserves 2.3 0.6 2.6 0.7 1.2 1.0 have been calculated for a constant thickness of 12 7.9 2.0 0.2 0.2 feet for areas where the coal beds are more than 12 PRLA CO125854 feet thick. Therefore, in some instances, underground RB R(50%) Reserves may be less than 50 percent of the Reserve 0.9 0.4 0.0 0.0 CL COI05299 27 29 32'30" CL CO105300 CL C0123177 34 mile radius \_CL COI23177 CL CO105299 measurement Resources 0 0 6 N RB R(85%) 0.7 0.6 Inferred resources (Inf.) BOUNDARY LINES-Enclosed areas of 11 10 12 measured, indicated, and inferred coal resources of the coal bed. To convert short tons to metric tons, multiply short tons by 0.9072. 106°30′ To convert feet to meters, multiply feet 106°22′30″ by 0.3048. Compiled in 1979 Base from U.S. Geological Survey, 1955 SCALE 1:24 000 4000 5000 1 KILOMETER COLORADO PLATE 7 AREAL DISTRIBUTION AND QUADRANGLE LOCATION APPROXIMATE MEAN DECLINATION, 1955 IDENTIFIED RESOURCES MAP COAL RESOURCE OCCURRENCE MAP OF THE COALMONT QUADRANGLE, OF THE

> JACKSON COUNTY, COLORADO BY AAA ENGINEERING AND DRAFTING, INC. 1980

This report has not been edited for conformity with Geological Survey editorial standards or stratigraphic

nomenclature.

RIACH COAL BED